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-	4	("5127073") or ("5127071") or ("5475783") or ("5742480").PN.	USPAT; US-PGPUB	2003/02/28 10:36
-	1	("5963693").PN.	USPAT; US-PGPUB	2003/02/27 11:37
-	1	("4979787").PN.	USPAT; US-PGPUB	2003/02/27 15:28
-	1	("6354747").PN.	USPAT; US-PGPUB	2003/02/27 15:38
-	33	(optical adj1 module) same (fiber adj1 (array or bundle))	USPAT; US-PGPUB	2003/02/27 16:30
-	1112	385/88.cccls.	USPAT; US-PGPUB	2003/02/27 16:37
-	3	((optical adj1 module) same (fiber adj1 (array or bundle))) and 385/88.cccls.	USPAT; US-PGPUB	2003/02/27 16:36
-	104	(fiber adj1 (array or bundle)) same (circuit adj1 board)	USPAT; US-PGPUB	2003/02/27 16:37
-	1909	385/88-92.cccls.	USPAT; US-PGPUB	2003/02/27 17:03
-	15	((fiber adj1 (array or bundle)) same (circuit adj1 board)) and 385/88-92.cccls.	USPAT; US-PGPUB	2003/02/27 17:07
-	6243	flexible near3 (circuit adj1 board)	USPAT; US-PGPUB	2003/02/27 17:08
-	13	((flexible near3 (circuit adj1 board)) and (optical adj1 module)) and 385/88-92.cccls.	USPAT; US-PGPUB	2003/02/27 17:08
-	57	(flexible near3 (circuit adj1 board)) and (optical adj1 module)	USPAT; US-PGPUB	2003/02/27 18:00
-	50	((flexible near3 (circuit adj1 board)) and (optical adj1 module)) and adhesive	USPAT; US-PGPUB	2003/02/27 18:00
-	491	385/89.cccls.	USPAT; US-PGPUB	2003/02/28 15:03
-	1	("6170996").PN.	USPAT; US-PGPUB	2003/02/28 15:03

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VCSEL &lt;and&gt; optoelectronic

**Results:**Journal or Magazine = **JNL** Conference = **CNF** Standard = **STD****1 1 Gb/s VCSEL/CMOS flip-chip 2-D-array interconnects and associated diffractive optics**

*Simonis, G.J.; Pham, J.; Koley, B.; Shen, P.; Pamulapati, J.; Jiang Liu; Newmai Amarnāth, K.; Saini, S.S.; Lawler, W.; Datta, M.; Wasiczkko, L.; Mait, J.; Prathe Chang, W.; Dagenais, M.;*  
*"Parallel Interconnects, 1999. (PI '99) Proceedings. The 6th International Conference , 1999*  
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[\[Abstract\]](#) [\[PDF Full-Text \(200 KB\)\]](#) **IEEE CNF****2 Silicon-on-sapphire CMOS for improved VCSEL/CMOS optoelectronic interconnects**

*Simonis, G.J.; Kalayjian, Z.; Apsel, A.; Pouliquen, P.; Andreou, A.; Athale, R.; R.;*  
*Lasers and Electro-Optics Society 2000 Annual Meeting. LEOS 2000. 13th Annual Meeting. IEEE , Volume: 1 , 2000*  
 Page(s): 169 -170 vol.1

[\[Abstract\]](#) [\[PDF Full-Text \(216 KB\)\]](#) **IEEE CNF****3 Optoelectronics crossbar for avionics: STAR**

*Tooley, F.; Suyal, N.; Fritze, A.; Gourlay, J.; Dines, J.; McCarthy, A.; Walker, A Bresson, F.;*  
*Microdisplay and Smart Pixel Technologies (Ref. No. 2000/006), IEE Seminar on 2000*  
 Page(s): 6/1 -6/5

[\[Abstract\]](#) [\[PDF Full-Text \(444 KB\)\]](#) **IEE CNF****4 Heter gene us integration f OE arrays with Si electr nics and micro**

*Yue Liu;*

Advanced Packaging, IEEE Transactions on [see also Components, Packaging and Manufacturing Technology, Part B: Advanced Packaging, IEEE Transactions on]

Volume: 25 Issue: 1 , Feb 2002

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---

[\[Abstract\]](#) [\[PDF Full-Text \(677 KB\)\]](#) **IEEE JNL**

---

**5 Optoelectronic exclusive-OR using phototransistors and vertical cavity lasers**

*Beyette, F.R., Jr.; Geib, K.M.; St. Clair, C.M.; Feld, S.A.; Hafich, M.J.; Robinson, Wilmsen, C.W.;*

Lasers and Electro-Optics Society Annual Meeting, 1993. LEOS '93 Conference Proceedings. IEEE , 15-18 Nov 1993

Page(s): 498 -499

---

[\[Abstract\]](#) [\[PDF Full-Text \(136 KB\)\]](#) **IEEE CNF**

---

**6 Monolithic optoelectronic switch integrating a GaAs/AlGaAs heterojunction bipolar transistor and a vertical cavity surface emitting laser**

*Ping Zhou; Julian Cheng; Leibenguth, R.; Adams, A.C.; Zilko, J.L.; Zolper, J.; L Chalmers, S.; Vawter, G.A.;*

Lasers and Electro-Optics Society Annual Meeting, 1993. LEOS '93 Conference Proceedings. IEEE , 15-18 Nov 1993

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---

[\[Abstract\]](#) [\[PDF Full-Text \(148 KB\)\]](#) **IEEE CNF**

---

**7 A quasi-planar approach to the monolithic integration of high-speed and resonant photodetector arrays**

*Alduino, A.C.; Luong, S.Q.; Yuxin Zhou; Hains, C.P.; Cheng, J.;*

Lasers and Electro-Optics, 1999. CLEO '99. Summaries of Papers Presented at the Conference on , 23-28 May 1999

Page(s): 176 -177

---

[\[Abstract\]](#) [\[PDF Full-Text \(284 KB\)\]](#) **IEEE CNF**

---

**8 Optically-cascaded, multistage switching operation of a multifunctional binary optical/optoelectronic switch**

*Bo Lu; Yin-Chen Lu; Alduino, A.C.; Ortiz, G.G.; Cheng, J.; Hafich, M.J.; Klem, J. Schneider, R.P.; Zolper, J.C.;*

IEEE Photonics Technology Letters , Volume: 7 Issue: 12 , Dec 1995

Page(s): 1427 -1429

---

[\[Abstract\]](#) [\[PDF Full-Text \(340 KB\)\]](#) **IEEE JNL**

---

**9 Power control of VCSEL arrays using monolithically integrated focal plane detectors**

*Azadeh, M.; Darling, R.B.;*

Lightwave Technology, Journal of , Volume: 20 Issue: 8 , Aug 2002

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---

[\[Abstract\]](#) [\[PDF Full-Text \(567 KB\)\]](#) **IEEE JNL**

---

**10 4x4 broadband optoelectronic switch using VCSELs**

*Rajkumar, N.; McMullin, J.N.; Keyworth, B.P.;*

Vertical-Cavity Lasers, Technologies for a Global Information Infrastructure, Wireless Components Technology, Advanced Semiconductor Lasers ..., Gallium Nitride Materials, Processing, ..., 1997 Digest of the IEEE/LEOS Summer Topical Meeting

11-15 Aug 1997

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---

[\[Abstract\]](#) [\[PDF Full-Text \(196 KB\)\]](#) **IEEE CNF**

---

**11 A high-speed 32-channel CMOS VCSEL driver with built-in self-test and clock generation circuitry**

*Kiamilev, F.E.; Krishnamoorthy, A.V.;*

Selected Topics in Quantum Electronics, IEEE Journal on , Volume: 5 Issue: 2 , Mar/Apr 1999

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---

[\[Abstract\]](#) [\[PDF Full-Text \(496 KB\)\]](#) **IEEE JNL**

---

**12 A comprehensive circuit-level model of vertical-cavity surface-emitting lasers**

*Mena, P.V.; Morikuni, J.J.; Kang, S.-M.; Harton, A.V.; Wyatt, K.W.;*

Lightwave Technology, Journal of , Volume: 17 Issue: 12 , Dec 1999

Page(s): 2612 -2632

---

[\[Abstract\]](#) [\[PDF Full-Text \(444 KB\)\]](#) **IEEE JNL**

---

**13 A simple rate-equation-based thermal VCSEL model**

*Mena, P.V.; Morikuni, J.J.; Kang, S.-M.; Harton, A.V.; Wyatt, K.W.;*

Lightwave Technology, Journal of , Volume: 17 Issue: 5 , May 1999

Page(s): 865 -872

---

[\[Abstract\]](#) [\[PDF Full-Text \(132 KB\)\]](#) **IEEE JNL**

---

**14 Optoelectronic logic up table using VCSEL-based logic**

*Mitkas, P.A.; Irakliotis, L.J.; Beyette, F.R., Jr.; Feld, S.A.; Wilmsen, C.W.;*  
Lasers and Electro-Optics Society Annual Meeting, 1993. LEOS '93 Conference  
Proceedings. IEEE , 15-18 Nov 1993  
Page(s): 71 -72

[\[Abstract\]](#) [\[PDF Full-Text \(144 KB\)\]](#) **IEEE CNF**

---

**15 Advanced optoelectronic technology for smart pixels**

*Morgan, R.A.; Yue Liu; Cox, J.A.; Skogman, R.; Lehman, J.A.; Shang, A.; Wern  
Johnson, K.; Hibbs-Brenner, M.K.;*  
Lasers and Electro-Optics Society Annual Meeting, 1997. LEOS '97 10th Annual  
Meeting. Conference Proceedings., IEEE , Volume: 1 , 10-13 Nov 1997  
Page(s): 281 -282 vol.1

[\[Abstract\]](#) [\[PDF Full-Text \(164 KB\)\]](#) **IEEE CNF**

---

**16 Accurate CMOS current mode control and processing for a VCSEL array**

*Azadeh, M.; Darling, R.B.; Babbitt, W.R.;*  
Lasers and Electro-Optics, 2000. (CLEO 2000). Conference on , 2000  
Page(s): 536

[\[Abstract\]](#) [\[PDF Full-Text \(116 KB\)\]](#) **IEEE CNF**

---

**17 Power minimization and technology comparisons for digital free-space  
optoelectronic interconnections**

*Kibar, O.; Van Blerkom, D.A.; Chi Fan; Esener, S.C.;*  
Lightwave Technology, Journal of , Volume: 17 Issue: 4 , Apr 1999  
Page(s): 546 -555

[\[Abstract\]](#) [\[PDF Full-Text \(212 KB\)\]](#) **IEEE JNL**

---

**18 Optoelectronic multichip module integration for chip level optical  
interconnects**

*Prather, D.W.; Venkataraman, S.; Lecompte, M.; Kiamilev, F.; Mait, J.N.; Simo  
G.J.;*  
IEEE Photonics Technology Letters , Volume: 13 Issue: 10 , Oct 2001  
Page(s): 1112 -1114

[\[Abstract\]](#) [\[PDF Full-Text \(71 KB\)\]](#) **IEEE JNL**

---

**19 GaAs p-type electronic smart pixel arrays**

*Hibbs-Brenner, M.K.; Mukherjee, S.D.; Grung, B.L.; Skogen, J.;*  
Lasers and Electro-Optics Society Annual Meeting, 1993. LEOS '93 Conference  
Proceedings. IEEE , 15-18 Nov 1993

Page(s): 672 -673

[\[Abstract\]](#) [\[PDF Full-Text \(124 KB\)\]](#) **IEEE CNF**

---

**20 Proceedings of IEE/LEOS Summer Topical Meetings: Integrated Optoelectronics**

Integrated Optoelectronics, 1994., Proceedings of IEE/LEOS Summer Topical Meetings: , 6-13 Jul 1994

[\[Abstract\]](#) [\[PDF Full-Text \(132 KB\)\]](#) **IEEE CNF**

---

**21 Very rapid and selective epitaxy of InP around mesas of height up to 10 µm by hydride vapour phase epitaxy**

Lourdudoss, S.; Streubel, K.; Wallin, J.; Andre, J.; Kjebon, O.; Landgren, G.; Indium Phosphide and Related Materials, 1994. Conference Proceedings., Sixth International Conference on , 27-31 Mar 1994

Page(s): 615 -618

[\[Abstract\]](#) [\[PDF Full-Text \(392 KB\)\]](#) **IEEE CNF**

---

**22 A model for a reconfigurable fine-grained optoelectronic processor**

Butrym, A.M.; Craft, N.; Guise, D.; Murdocca, M.; Sauer, F.; Massively Parallel Processing Using Optical Interconnections, 1994., Proceeding First International Workshop on , 26-27 Apr 1994

Page(s): 19 -26

[\[Abstract\]](#) [\[PDF Full-Text \(608 KB\)\]](#) **IEEE CNF**

---

**23 Thermal management of VCSEL-based optoelectronic modules**

Lee, Y.C.; Swirhun, S.E.; Fu, W.S.; Keyser, T.A.; Jewell, J.L.; Quinn, W.E.; Electronic Components and Technology Conference, 1995. Proceedings., 45th , May 1995

Page(s): 387 -392

[\[Abstract\]](#) [\[PDF Full-Text \(512 KB\)\]](#) **IEEE CNF**

---

**24 Optoelectronic memory applications for VCSEL-based smart pixels**

Sawchuk, A.A.; Lasers and Electro-Optics Society Annual Meeting, 1997. LEOS '97 10th Annual Meeting. Conference Proceedings., IEEE , Volume: 2 , 10-13 Nov 1997

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[\[Abstract\]](#) [\[PDF Full-Text \(168 KB\)\]](#) **IEEE CNF**

---

25 **Plastic VCSEL array packaging and high density polymer waveguide: board and backplane optical interconnect**  
Liu, Y.S.; Wojnarowski, R.J.; Hennessy, W.A.; Piacente, P.A.; Rowlette, J., Jr.; Kallen, M.; Stack, J.; Yue Liu; Pczalski, A.; Nahata, A.; Yardley, J.; Electronic Components and Technology Conference, 1998. 48th IEEE , 25-28 May 1998  
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[\[Abstract\]](#) [\[PDF Full-Text \(1812 KB\)\]](#) **IEEE CNF**

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